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## Guest editorial



Michael Schütze

### High temperature corrosion issues in the chemical and petrochemical industries

Among those industries facing challenges from high temperature corrosion, the chemical process and petrochemical industries have a significant share of the problems. Although the reliability and operation stability of the plants are nevertheless high, there is still great interest in broadening knowledge in this field mostly from the viewpoint of increasing plant or process efficiency by extending the life-time of the components or by allowing the use of even more aggressive process environments, without cutbacks in plant performance. Against this basis, a two day workshop was held on these topics as part of EUROCORR 2004 in Nice, France, addressing issues of 'Coke deposition, carburisation and metal dusting' and of 'Corrosion by highly aggressive environments'. Although written versions of the presentations appeared on the conference CD ROM, it was agreed with the organisers of EUROCORR 2004 that selected papers from this workshop should also be published in an extended form in a technical-scientific journal. It was thanks to the help of Dr Paul McIntyre, the editor of Corrosion Engineering, Science and Technology, that a special issue of this journal could be devoted to selected papers from this workshop. After a general overview on high temperature materials issues in the chemical and petrochemical industries, describing practical experience by one of the large international companies, the following papers deal with aspects of material behaviour in combustion environments as well as in highly aggressive atmospheres. It is definitely not intended to cover the whole range of applications at high temperatures in these industries, but the papers give a good flavour of the current issues, research activities and needs in this field. As the manuscripts were extended and updated after the conference, aspects of the discussion could also be taken into account in the papers published here.

The readiness of the authors to revise their manuscripts for publication in Corrosion Engineering, Science and Technology is gratefully acknowledged and thanks are also due to Dr Paul McIntyre for committing himself to the preparation of this special issue. This issue may help to spread this important knowledge well beyond the group of participants of EUROCORR 2004.

**Michael Schütze**  
Chairman of the EFC working party 'Corrosion by hot gases and combustion products'

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# Conjunctivitis A Complex and Multifaceted Disorder

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Neelis, Maarten, Worrell, Ernst, and Masanet, Eric. . This Energy Guide discusses energy efficiency practices and energy efficient technologies that can be implemented at the component, process, facility, and organizational levels. It also includes a section devoted specifically to petroleum and petrochemical industry related issues Year: 2015 Edition: Second edition Pages: 500 Pages In File: 426 Language: English Identifier: 1-62708-094-5,978-1-62708-094-1 Org File Size: 117,230,368 Extension: pdf Tags: Petroleum chemicals industry -- Equipment and supplies -- Corrosion. OSTI.GOV Technical Report: Energy Efficiency Improvement and Cost Saving Opportunities for the Petrochemical Industry - An ENERGY STAR(R) Guide for Energy and Plant Managers Energy is the most important cost factor in the U.S petrochemical industry, defined in this guide as the chemical industry sectors producing large volume basic and intermediate organic chemicals as well as large volume plastics. United States. @article(osti\_937505, title = (Energy Efficiency Improvement and Cost Saving Opportunities for the Petrochemical Industry - An ENERGY STAR(R) Guide for Energy and Plant Managers), author = {Neelis, Maarten and Worrell, Ernst and Masanet, Eric}, abstractNote = {Energy is the most important cost factor in the U.S petrochemical industry, defined in this guide as the chemical industry sectors producing large volume basic and intermediate organic chemicals as well as large volume plastics. Typical measure payback periods and references to further information in the technical literature are also provided, when available.more^A^A^A The information in this Energy Guide is intended to help energy and plant managers in the U.S. petrochemical industry reduce energy consumption in a cost-effective manner while maintaining the quality of products manufactured. 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Spider web. The improvement of energy efficiency is an important way to reduce these costs and increase predictable earnings, especially in times of volatility of high energy prices. Further research on the economy of all measures-e on their applicability to different production-production practices are necessary to evaluate their effectiveness in terms of costs in individual plants. ^less authors: Neelis, Maarten; Worrell, Ernst; Masanet, Eric Publication Date: MON 01 Set 00:00:00 EDT 2008 Research Organ: Lawrence Berkeley National Lab. Htps://doi.org/10.2172/937505. There are a variety of opportunities available in individual plants in the petrochemical industry of the United States to reduce energy consumption economically. 2008. p., 2008. Subsequently, a large variety of energy efficiency measures are described. The article has already confirmed that it has permission to publish it. The protection methods discusses, including the discussion on corrosion inhibitors and the resistance to aluminum corrosion, magnesium, stainless steel and nickel. (LBNL), Berkeley, Ca (United States) Org Sponsor.: Division Osti Technologies of Environmental Energy; 937505 NUMBER / 1 report: LBNL-964etm: US200821 %% 42 Number of the Doe Contract: a e De-AC02-05CH11231 Type of resource type of resource Technical relationship Country Publication: United States Language: English Subject: 32; Chemical industry; ECONOMY; Electricity ; ENERGY CONSUMPTION; ENERGY EFFICIENCY; Reimbursement; Petrochemicals; Plastic; Prices; PRODUCTION; Volatility e; petrochemical, improvement of energy efficiency, energy guide, energy, STAR? Many measurement descriptions include savings foreseen in energy costs and energy related to the data of case studies of the real world applications in the petrochemical and related worldwide industries. If you are the author/publisher or have the copyright of these documents, please report us using this DMCA ratio module. The sector spent about \$ 10 billion for fuels and electricity in 2004. United States: N. Neelis, Maarten, Worrell, Ernst and Masanet, Eric. Vdoc.pub Autors: Asm International, Victoria Burt PDF download incorporated this document was loaded by our user. user.

2022-6-18 - Etymology. The word plastic derives from the Greek πλαστικός (plastikos) meaning "capable of being shaped or molded," and in turn from πλαστός (plastos) meaning "molded." As a noun the word most commonly refers to the solid products of petrochemical-derived manufacturing. The noun plasticity refers specifically here to the deformability of the materials. This complete revision of Applied Process Design for Chemical and Petrochemical Plants, Volume 1 builds upon Ernest E. Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven. Full PDF Package Download Full PDF Package. This Paper. A short summary of this paper. 11 Full PDFs. ... 2013-8-15 - Where c = speed of sound in meters or feet per second, f = frequency in Hz, and λ = wavelength in meters or feet. Sound Pressure. The vibrations associated with sound are detected as slight variations in pressure. The range of sound pressures perceived as sound is extremely large, beginning with a very weak pressure causing faint sounds and increasing to noise so ... CENTUM VP R6.06 is compatible with Windows Server 2016, which delivers the latest security functions. ... The FOUNDATION™ fieldbus device files in this section are categorized according to whether the devices have undergone Host Interoperability Support Testing (HIST). HIST is an invaluable tool in determining whether a specific fieldbus ... Expatica is the international community's online home away from home. A must-read for English-speaking expatriates and internationals across Europe, Expatica provides a tailored local news service and essential information on living, working, and moving to your country of choice. With in-depth features, Expatica brings the international community closer together. We'll send you the first draft for approval by September 11, 2018 at 10:52 AM. Total price: \$ 26. free inquiry. Features Format. FREE bibliography page; FREE title page; FREE formatting (APA, MLA, Harvard, Chicago/Turabian) 24x7 support; Part-by-part payment; PowerPoint slides; Review your writer's samples; 2022-6-16 - The emissions from IPPU without considering energy use was 78 million tons of CO2 equivalent (CO2eq) in 2020, and the cement industry was the highest emitter (35.5%), followed by petrochemical (32.3%) and iron and steel industries (16.8%). A scenario-based projection analysis was performed to estimate the range of emissions for the years up to ... 2022-3-2 - Windows NT is used to manage the network through the server and Windows 98 on clients (PCS) and uses Oracle database software. From 2004to 2005 Server has been developed to increase PCS to increase and speed up the workload and to accommodate the volume of data and new applications required of departments to join the network. Download Free PDF. Chemical Engineering Design Principles Practice and Economics of-Plant and Process Design. Leticia Silvano. Download Download PDF. Full PDF Package Download Full PDF Package. This Paper. A short summary of this paper. 22 Full PDFs related to ...

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